

Title (en)
MOLECULAR ORIENTATION ARTICLES MOLDED FROM HIGH-MOLECULAR WEIGHT POLYETHYLENE AND PROCESSES FOR PREPARING SAME

Publication
EP 0419060 A3 19920617 (EN)

Application
EP 90309423 A 19900829

Priority
• JP 2905590 A 19900208
• JP 2905690 A 19900208
• JP 24752989 A 19890922
• JP 31002489 A 19891129
• JP 31845489 A 19891207

Abstract (en)
[origin: EP0419060A2] In accordance with the present invention, there are provided high molecular weight polyethylene molecular orientation molded articles formed from high molecular weight polyethylenes having a weight average molecular weight of 300,000-600,000, said molecular orientation molded articles having a fineness of not more than 15 deniers, a tensile strength of more than at least 1.7 GPa and satisfying the tensile strength S (GPa)-weight average molecular weight M. (g/mol)-fineness D (denier) relationship represented by the formula [I] $S \geq 0.0001M^{0.5}D^{0.5}$ and processes for preparing the same. Further in accordance with the present invention, there are also provided high molecular weight polyethylene molecular orientation molded articles formed from high molecular weight polyethylene having a weight average molecular weight of exceeding 600,000 and satisfying the relationship represented by the formula [II]. $S \geq 0.0001M^{0.5}D^{0.5}$

IPC 1-7
B29C 55/04; **B29C 47/00**

IPC 8 full level
B29C 55/00 (2006.01); **D01F 6/04** (2006.01)

CPC (source: EP KR US)
B29C 48/00 (2019.01 - KR); **B29C 55/005** (2013.01 - EP US); **C08F 10/00** (2013.01 - KR); **D01F 6/04** (2013.01 - EP US); **B29K 2023/06** (2013.01 - EP US); **B29K 2223/06** (2013.01 - EP US); **Y10S 428/902** (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2929** (2015.01 - EP US)

Citation (search report)
• [X] EP 0213208 A1 19870311 - TORAY INDUSTRIES [JP]
• [X] EP 0192303 A1 19860827 - STAMICARBON [NL]
• [X] EP 0110021 A2 19840613 - ALLIED CORP [US]
• [XD] JP S59187614 A 19841024 - MITSUI PETROCHEMICAL IND
• [AD] EP 0187974 A2 19860723 - ALLIED CORP [US]
• [X] WORLD PATENTS INDEX LATEST Section Ch, Week 38, Derwent Publications Ltd., London, GB; Class A, AN 87-266774 & JP-A-62 184 111 (TORAY) 12 August 1987
• [A] WORLD PATENTS INDEX LATEST Section Ch, Week 02, Derwent Publications Ltd., London, GB; Class A, AN 83-03267K & JP-A-57 193 319 (ASAHI CHEMICAL) 27 November 1982

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Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0419060 A2 19910327; **EP 0419060 A3 19920617**; AU 6129790 A 19910328; AU 642154 B2 19931014; CA 2024944 A1 19910323; CA 2024944 C 19950912; KR 910006337 A 19910429; KR 930000734 B1 19930130; NZ 235403 A 19930526; US 5252394 A 19931012; US 5302453 A 19940412

DOCDB simple family (application)
EP 90309423 A 19900829; AU 6129790 A 19900823; CA 2024944 A 19900910; KR 900015066 A 19900922; NZ 23540390 A 19900920; US 58596390 A 19900921; US 6810093 A 19930528